## **Quiz Results**

File: IEEE\_Access\_LaTeX\_template
Date: 28-07-2025

Score: 1/10

Question 1: What is the primary focus of the EDUGRAM framework?

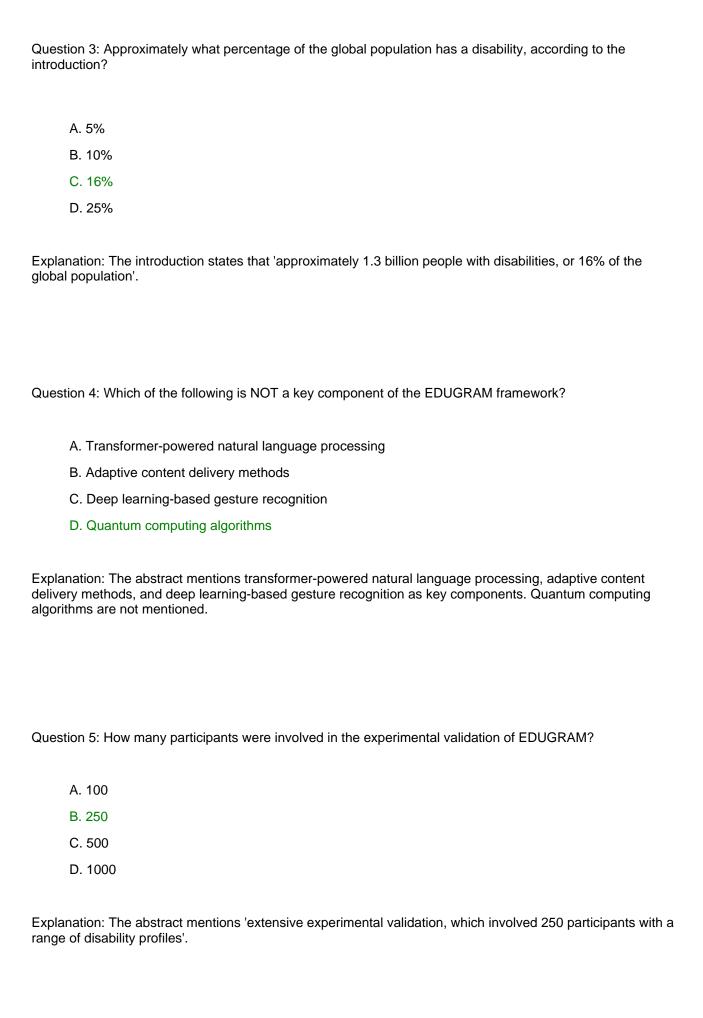
- A. General-purpose accessibility tools.
- B. Developing video games.
- C. A multimodal educational framework for differently-abled learners.
- D. Improving internet speed.

Explanation: The abstract clearly states that EDUGRAM is a 'multimodal educational framework that blends transformer-powered natural language processing, adaptive content delivery methods, and deep learning-based gesture recognition' for differently-abled learners.

Question 2: What is the accuracy of EDUGRAM in recognizing American Sign Language (ASL) in educational settings?

- A. 85.5%
- B. 96.8%
- C. 73%
- D. 99.9%

Explanation: The abstract states that the system shows '96.8% accuracy in recognising American Sign Language (ASL) in educational settings'.



Question 6: In which two countries were user studies conducted for EDUGRAM?

A. USA and Canada

B. India and China C. USA and India D. Canada and China Explanation: The passage mentions 'user studies with 250 participants from six educational institutions in the US and India'. Question 7: What architecture is used in the EDUGRAM framework for sign language recognition? A. Recurrent Neural Network B. Convolutional Neural Network C. Hybrid CNN-Transformer D. Generative Adversarial Network Explanation: The abstract refers to 'hybrid CNN-Transformer architecture created especially for gesture recognition'. Question 8: What is the main drawback of sensor-based sign language recognition systems? A. Low accuracy B. High cost and portability issues C. Difficulty recognizing complex gestures D. Inability to process data in real time Explanation: Section II A states 'High levels of accuracy are achieved by sensor-based systems using tools like Kinect or specialised gloves, but they have serious cost and portability issues'.

Question 9: What is the purpose of the federated learning implementation in EDUGRAM?

- A. To increase the computational power of the system.
- B. To protect user privacy and allow for ongoing model enhancement.
- C. To reduce the cost of hardware components.
- D. To improve the system's visual appeal.

Explanation: The abstract and introduction both mention that federated learning is employed 'to protect privacy and allow for ongoing model enhancement'.

Question 10: Compared to traditional assistive technologies, what percentage increase was observed in learning engagement using EDUGRAM?

- A. 50%
- B. 63%
- C. 73%
- D. 87%

Explanation: The abstract states 'we found significant improvements in learning engagement (87% increase)' when compared to traditional assistive technologies.